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		Status Report unde Government,	er Contract to t	ne U.S.	· ·	STAT
		The report period	represented ber	ein covers	•	017(1
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		APPENDICES	•	
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	Outline - Operating	Instructions Manual	Appendix I	
			,	
•	·	- for period ending		STAT
	October 31, 1969		Appendix II	
			. •	
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_			
		PROGRAM SUMMARY	
		Scheduled Percentage of Completion 79.9%	
П		Actual Percentage this Date 75.5%	
	•		
		The stage drive systems are complete. However,	
П		the laser interferometer systems are still not available as the	
Ы	•	lasers failed in storage at due to helium gas diffusion and	STAT
		the repaired laser systems have not yet been received back from	
口口		the manufacturer	STAT
	•	The electronic logic systems have been checked	
		out and are satisfactory.	
П		The acceptance testing for Image Analysis Equipment,	
Ц		manufactured , slipped from 11/17/69 as	STAT
	•	scheduled in October, to December 19, 1969. However, is	STAT
П		presently reviewing test program and there is no possibility	STAT
Ė		that the tests can occur during December because of the time	
		required for mutual agreement between on the test	STAT
		procedures.	
Ы			
	:	The January 12, 1970, schedule for optical acceptance	•
F		tests at the optical subcontractor's plant has been deferred	STAT
J	·	from January 12, 1970, to a later date not yet established. This is	
		due to technical difficulties with certain of the reticle and illumination	
一日		system subassemblies during their preacceptance testing by the	
		optical subcontractor.	
		An interim rough draft of the Operating Instructions	•
, pa	•	Manual has been prepared, and the outline appended (App. I).	

TASK 1

STATEMENT OF WORK, SPECIFICATIONS,

REPORT PREPARATION

Scheduled percentage of completion 87%

Actual percentage this date 87%

This Status Report has been prepared and submitted on schedule.

In the future, if preparation and submittal of the Monthly Status Report on schedule is the only activity under this Task, the Task will be omitted.

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	<u>.</u>	TASK 2		
	SCHEDULING	G AND PLANNING	e e e e e e e e e e e e e e e e e e e	
	Scheduled r	percentage of completion	87%	
	Actual perce	entage this date	87%	
П	7			
		of re-scheduling related	to subcontractor	٠
	activity appears in this rep	oort under the appropriate	Task heading.	
		nitoring visit to	remains	SSTAT
	scheduled for December.			
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	TASK 5	a.
	MEETINGS	•
•		
	Scheduled percentage of completion 87%	
•	Actual percentage this date 87%	*.
	Technical presentations and status reports were	
made to four	groups of customers on the following dates:	
**************************************	November 4, 1969, a different group on	
November 5,	1969, and two groups on November 20, 1969.	· · · · ·
and the second second		
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		T	ASK 6	· •			
••		FACILITIES	REQUIREMEI	NTS		•	
·	•	Scheduled per	centage of c	completion	100	%	•
		Actual percen	tage this da	te	95	% .	
		The additional	l heater men	tioned in th	e last Sta	itus	
	Report arrived	at during t	he report pe	riod. Tests	of its ef	fect	STAT
	on the tempera	ature control sy	stem and air	r flows are	being con	ducted.	
5.				· •			
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П			
		TASK 11	
		STAGE DRIVES	
П			
		Scheduled percentage of completion 100%	
	-	Actual percentage this date 90%	
П			
		The stage drive rate loop design is essentially	
		complete. Both stages are operating under velocity control,	
		and the breakaway torque and running friction problem referred	
		to in the last Status Report appears to have been remedied.	,
		As soon as the lasers are returned to final position loop ST	ΑT
	·	design will be completed. When this is accomplished this Task	
		will be finished.	
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Ä		TASK 12
		FILM DRIVE AND TRANSPORT SYSTEM
		en de la composition de la composition La composition de la
		Scheduled percentage of completion 100%
	·	Actual percentage this date 80%
П	<i>I</i>	Testing and adjustment of the film drive and transport
		system with the pneumatic liftoff and clamping apparatus is continuing.
		Final compensation for the reel servo systems has been
		completed and appears to be satisfactory.
	·	Work is proceeding on the capstan rate loop compensation
	•	in order to provide precise control of film motion at low speeds. A
П		non-linear network is being designed which provides wide loop band-
		width for small displacements of the film, (to allow precise film
		positioning on the platen) with reduced bandwidth at higher velocities,
		(to eliminate excess stresses on the film when slewing). This work
		should be completed during December.
F.		
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Ц				TASK 13			:
			FILM PLATEN		MPING		
F	. •		LITIM LTWITIN	AND LITTIN OFF	1111 111		
			Scheduled perc	entage of com	npletion	98%	
			Actual percent			93%	· ·
					* .		
F		•	Checkout of th	e film platen a	and film cla	mping syste	m
		is proceeding,	in conjunction	with the work	mentioned	under Task 3	34
	•	in this report.		`			
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<u>-</u>	TASKS 16, 17 & 18
Ы	VIEWING OPTICS, VIEWING ILLUMINATION
	* RETICLE PROJECTOR and ILLUMINATION
— П	
Ц	Scheduled percentage of completion 91%
	Actual percentage this date 90%
F	
U	The optical fabricator has found technical discrepancies
	during performance testing of certain of the optical subassemblies.
R	Included are the main illumination condenser zoom,
_	reticle 10X zoom, and reticle anamorph.
	Preliminary information indicates the problem is due to
	image wander during operation of the subassemblies. This problem is
	presently being investigated by the optical subcontractor.
	A delay is anticipated in the acceptance tests STAT
	presently scheduled for January 1970, until the problems are solved.
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	TASK 22	
	INTERFEROMETER ASSEMBLY	
	Scheduled percentage of completion 98%	
	Actual percentage this date 70%	•
	The last status report stated that the laser assemblies	,
	and power supplies were returned to for replacement and	STAT
	adjustment of the plasma tubes. had said that the	STAT
	equipment would be returned to within this report period, but it	STAT
Ц	was not. They now estimate that the equipment will reach during	STAT
	December, at which time work can commence on the measuring system.	,
_		•
П		
П		

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	TASK 23
	OPTICS DRIVE ASSEMBLY
	Scheduled percentage of completion 98%
	Actual percentage this date 90%
	Checkout of the complete servo system is complete.
	All components in the system appear to be performing satisfactorily.
	This Task is essentially complete until the optics are received from the optical subcontractor.
F	

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7		
	TASK 24	•
	IMAGE ANALYSIS SYSTEM	
7		
∃ .	Scheduled percentage of completion 95%	
	Actual percentage this date 95%	
7		
<u>-</u>	spent two	STAT
	days a to discuss the progress of the image analysis system.	STAT
7	In lieu of a trip report, the results of that meeting are	
- 	included in this disucssion	
1	During the meeting with it was found that the	STAT
7	image analysis system appears generally to perform satisfactorily.	
⊒	Some of the minimum performance requirements, however, have not	
	been met. A particular area of difficulty lies in the correlation quality	
7	signal which indicates to the computer system whether or not the imagery	
∃	is satisfactory for analysis by the system. Several methods of improving	
	the operation of the equipment were suggested but the problem	STAT
7	is as yet unresolved.	
	A new and abbreviated test procedure was given to	STAT
	the representatives in a partially complete rough draft to be brought	STAT
7	back to for study. Such study by personnel has led to the con-	ŜŦŔŦ
	clusion that in many areas the test procedure is unsatisfactory as written,	
_	and a revised test procedure is being generated at for discussion with	STAT
		STAT
⊒		

			P44.92;
			STAT
		was requested to make a formal rough draft submittal of their modified test procedure because the rewritten procedure differed	01741
		greatly from the procedure originally submitted	STAT
	• • •	Additionally, the five pairs of stereo slides for qualitative	•
		testing of the instrument (to be furnished have not been submitted	STAT
P	•	for approval.	STAT
⊟ ∴		The predistorted slide pairs to be used for quantitative	•
	,	testing of the instrument (also to be furnished have been agreed	STAT
		upon for image content, but the distortions introduced into the slides for	STAT
<u> </u>	•	test purposes are, in the opinion of personnel, unsatisfactory in	JIAI
		several areas. The principal difficulty is that no slides have been pro-	
		vided which contain only single first-order distortions, thus making it	0747
	,	impossible to test the single distortion cross-talk requirement per	STAT
		Specification No. 10. This matter is being discussed	STAT
	`	Delivery of the image analysis system was rescheduled	
		to December 19, 1969, but in view of the extensive changes	STAT
		required in the test procedure and the possibility of having to make new	0.7.4.7
		test slides, it appears doubtful that will be ready for acceptance	STAT
		testing at that date.	•
		Progress Report for the period appears in	STAT
		Appendix II.	

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			•					
		•		TASK 29				
		:		CABLING				
				•				
			Scheduled per	centage of c	completion	98%		,
			Actual percen	tage this dat	te	97%		
			A few cables					
			abricated. Thi	s work snou	id be accor	nprisned du	mg	
	•	December.	One extra cal	ale hetween i	Rack 3 and	the control		• .
		console was a	added in order				el '	
			orated in the d				, . · · · ·	•
		•	It is expected				iuri ng	
		December.			•	,		
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	TASK 32	
	COMPUTER	
		•
	Scheduled percentage of completion 100%	
	Actual percentage this date 100%	
÷		
	No further systematic difficulties have been found	•
	in the machine. technicians are continuing to keep the operation	STA
	log mentioned in the last status report.	
	It was found necessary, during this report period, to	
	replace the type box in the ASR 35 teleprinter. Additionally, a new	
	set of punches and dies have been ordered for the high speed paper	,
	tape punch, since the volume usage of this equipment during the	
	programming effort has caused it to wear out.	
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_	TASK 33
	ELECTRONIC RACKS AND CONTROL CABINETS
7	
_	Scheduled percentage of completion 98%
	Actual percentage this date 98%
7	
ا	Noise and transmission losses in the digital logic
7	system continue to be decreased by appropriate adjustments in the
_ 	electronics cabinet #3 wiring.
_	This Task is substantially complete.
_ 	
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	TASK 34		
į į	UTILITIES, VACUUM AND AI	R SYSTEMS	
			•
	Scheduled percentage of o	completion 95%	•
	Actual percentage this da	te 93%	
	Testing of valves, pressu	are switches, and air cont	rol
solenoids is	nearly complete. The insta	llation of larger compress	ed
air lines men	tioned in the previous repor	t has been completed.	·
1	The adjustment of the trip	points for the alarm failu	ıre
sensors is es	ssentially complete.		
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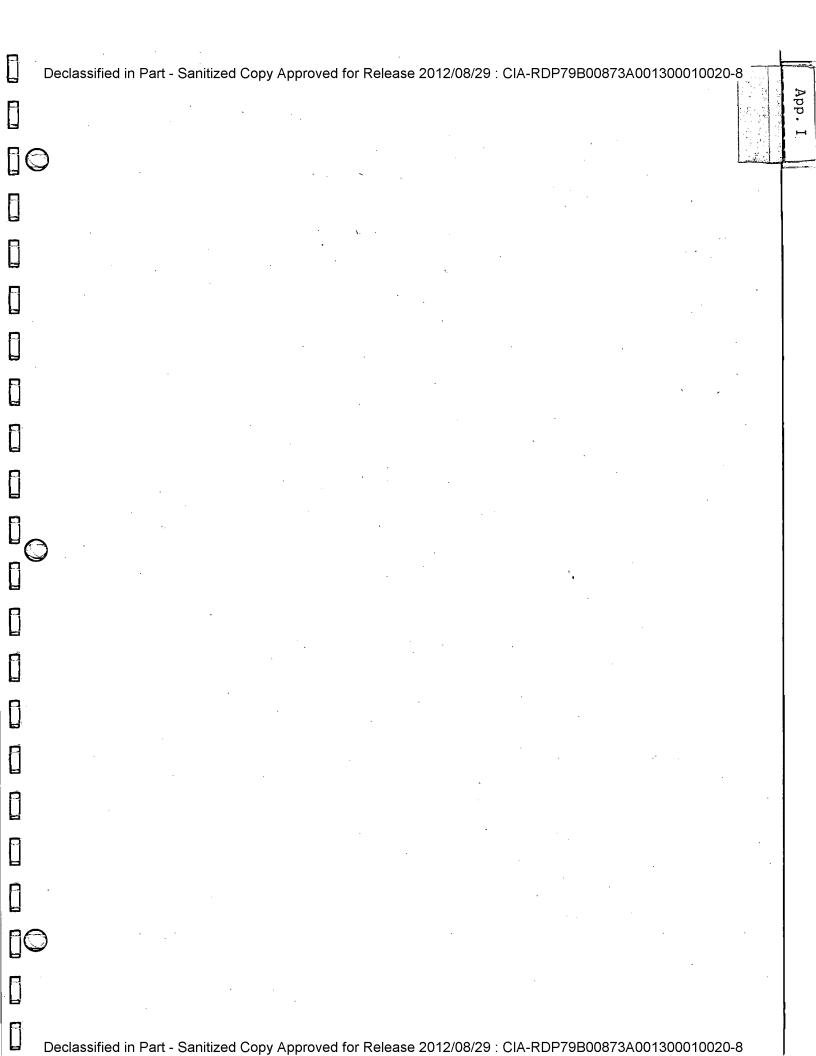
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	TASK 36
	OVERALL ASSEMBLY
2	Scheduled percentage of completion 85%
	Actual percentage this date 57%
•	
,	Systematic testing of the digital logic interface is
	nearly complete. All of the digital logic associated with manual modes
· · · · · · · · · · · · · · · · · · ·	of operation of the Stereocomparator has been tested and found to be
,	satisfactory. Also, the digital logic associated with computer operation
	of the machine has been tested and is now operational.
· '	The remaining work to be done on this area consists of
	reducing noise levels in a few logic lines, and it is expected that this
	work will be completed in the next report period.
·	It was found necessary to move the current driver circuit
	boards for the IBM 526 Card Punch out of the output interface logic drawer
	into the punch control chassis proper. This move, combined with a
	reharnessing of the punch control chassis, has reduced electrical noise
	interference from the card punch system to acceptable levels. A small
	amount of electrical noise suppression is being performed on the IBM
	Card Punch itself, and it is contemplated that all of this work will be
· · · · · ·	finished within the next report period.
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		TASK 37
]	ELECTRICAL NOISE SUPPRESSION
	-]	
	s	Scheduled percentage of completion 75%
	A	actual percentage this date 65%
		Systematic elimination of internally generated cross-
	talk and spuriou	s switching signals continues. The specific steps
		described under other Tasks in this report (Tasks 32,
	33, etc.).	
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		TASK 42	.'
		BREADBOARDS AND TEST DEVICES	
	·		
— П		Scheduled percentage of completion 92%	',
		Actual percentage this date 80%	
П		The test panel to be used in the optical acceptance	
		test at Sopelem, and described in the last status report, is complete	
		The switching panel mentioned in the previous repor	t ·
П		has been constructed and tested.	
		These two major assemblies, plus a dual voltage his	
	•	to Sopelem. With this equipment it will be possible to test the opt	
	• .	system under rate loop control which will allow precise setting of t	
П	•	optical elements during the acceptance test.	
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•	Task 43		Ì
	COMPUTER PROGRAMMING AND SERVICES		
	Cahadulad norganizaci of gamplation	0.00	
	Scheduled percentage of completion Actual percentage this date	80% 80%	
	Actual percentage this date		
	No further work has been performed by the	ne .	
	programmer due to the fact that a point has been reached		
	gramming effort at which further software preparation is		
	on completion of the measuring system.		
	is continuing to evaluate the transfe	er function of	
	the correlator outputs through the computer process		
	optics drives. The results obtained thus far are not con	nclusive, but	
	indicate that a software automatic gain control subrouti	ne may be	
	required to maintain optical servo loop stability over th	e entire range	
	of optics parameters. The variable-gain characteristics	s of the	
	rectangular-to-polar-coordinate conversion required to	change the first-	
	order scale and skew signals, from the correlator into c	orresponding	
	magnification, rotation, and anamorph corrections appe	ar in the optics	
	drive loops. It is necessary to be certain that at low g	ains sufficient	
	accuracy is maintained, while at high gains, servo ove	rshoots and	
	instability are avoided through proper software control.		
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		Ţ.	CASK 47				•
•	INSTRU	JCTION MANUA	L AND D	RAWING SU	BMITTAI		•
		Scheduled pe	ercentage	of complet	ion	40%	
		Actual perce	ntage this	s date		40%	
		During this r	eport per	iod. a n inte	erim r ou c	h d ra ft	
	of the Openat	ing Instruction			•		
			s Manuai	was prepar	ieu. Aii	Outline is	
	appended (Ap	ppendix I).					
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	OUTLINE	
	OPERATING INSTRUCTIONS MANUAL	,
	JOB 342	
	Introduction	
	A. Purpose of the Manual	
	B. Scope of the Manual	
	C. Organization of the Manual	
II.	Summary of Stereocomparator System Operation	•
	A. Capabilities	
	1. Achieved by three component groups	
	a. Measuring engines	
	b. Optical train	
	c. Control elements	
	B. Discussion of measuring engines	
	granic block	
	2. Granite tee	
	3. Top stage	
•	4. Threadless leadscrew	
	5. Imagery drive units	
	6. Film platen and vacuum-clamping system	
	7. Light table	
	8. Laser-interferometer	
	9. Summary	
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П		P	age 2
			•
1	C.	Discussion of optical train	
Π		1. Optical bridge	
		a. Viewing zoom lens	
		b. Objective changeover	
Π		c. Anamorph	
		d. Image rotator	,
		2. Binocular Eyepiece	
\prod		a. High-speed safety shutters	
П		3. Reticle dot	
		4. Additional components	
		5. Summary	
П	D.	Discussion of the control group	
	Ε.	STEREOCOMPARATOR Specifications	
	F.	Glossary of terms	
П			
│ ∐	I. Opera	tion Controls	
	A.	Control console	
n		1. Nixie tubes	
		2. Read-out windows	
		3. Nixie tube pushbuttons	
П		4. Correlator parallax potentiometers and meters	
	•	5. Control knobs	
		a. Platen illumination	
	F1	b. Anamorphic	
		c. Zoom	
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Ш	d. Image
	Reticle
П	6. Joystick
	7. Trackballs
	8. Imagery drive lever
П	9. Main control pushbuttons
Ц	a. Warning/Indicator buttons (8)
	b. Operator communication with computer (29)
П	C. Mechanical adjustments (18)
Ш	d. Mode selection (3)
	e. Customer mensuration programs (16)
П	B. Cabinets, computer, teletypewriter
LI -	C. Binocular eyepiece
	l. Parallax
П	and the first of the second
	3. Focus
П	IV. Specific Operations with the STEREOCOMPARATOR
П	A. Power on sequence
	B. Up-loading the imagery
	C. Up-loading the computer
	D. Establishing stereo - Auto with Electronic Correlator mode
	E. Establishing stereo - Auto without Electronic Correlator mode
	F. Auto stereo scanning .
	G. Mensuration
	H. Stage control summary
	I. Optics control summary
F	
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	PROGRESS REPORT FOR PERIOD ENDING 31 OCTOBER 1969	
	PROGRESS DURING REPORTING PERIOD	
•	The wiring clean up and a workmanship inspection were completed on the Image Dissector assemblies, the chassis and a number of the printed circuit boards.	
	Drawings were updated to include all changes that were made to the system after the sub-assembly test.	
	The system was tested to determine its essential characteristics. The coefficients of the first order outputs required readjustments and were set to their previously established values. The parallax error scale factors were changed to 3.33 volts/mm. A change in the dimension	
	of the scanning pattern from a 12mm to a 16mm diagonal to derive more information from the slides necessitated a change in the coefficient - determining resistors. The above setting is intended to enlarge the	
	pull in range and did not appear to be inconsistent with the minimum callout of item 10El of Specification No. 10.	
	PLANS FOR NEXT PERIOD	
	During the remainder of November the procedural aspects of the acceptance tests should be resolved and the test procedure resubmitted for approval. The procedures will be revised to reflect the new correspondence test for multiple errors and notations relative to image quality.	
,	Testing will be continued to check out procedures as well as to avoid test problems associated with orientation and content of imagery on the test slides.	

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		VISIT	STAT
A		visited	STAT
		on November 13 and 14. They were given a general	STAT
		briefing on the equipment and its performance. On both days they	
		inspected and operated the equipment to obtain a private assessment of	
		its operation and the problems inherent in testing the equipment. They were shown the results of the preacceptance testing, and the equipment	
•		performance was discussed relative to the performance of the equip-	STAT
		ment. The proposed alternation to the test procedures was reviewed and	,
		the resubmission suggested.	
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